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 September **Journal on Educational Resources in Computing (JERIC)** , Volume 1 Issue 3es 2001  
**Publisher:** ACM [Request Permissions](#)  
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- Service-oriented device communications using the devices profile for web services**  
 François Jammes, Antoine Menach, Harm Smilt  
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**Publisher:** ACM  
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This paper outlines the benefits of adopting service-oriented architectures at the level of communications between resource-constrained embedded devices. It focuses on the usage of the *Devices Profile for Web Services* as the underpinning of such ...

**Keywords:** communication infrastructure, device networking, service-oriented architecture, web service

- An accelerated remote graphics architecture for PDAS**  
 Fabrizio Lamberti, Claudio Zunino, Andrea Sanna, Antonino Fiume, Marco Maniezzo  
 March 2003 **Web3D '03: Proceedings of the eighth international conference on 3D Web technology**  
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A new category of devices, known as Personal Digital Assistant (PDA), has become increasingly widespread since the end of the nineties. A large number of software applications have been developed for PDAs, but high-quality 3D graphics still remain beyond ...
- Communications of the ACM: Volume 52 Issue 7**  
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5 [Wireless hotspots: current challenges and future directions](#)

Anand Balachandran, Geoffrey M. Voelker, Paramvir Bahl

June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (780.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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In recent years, wireless Internet service providers (WISPs) have established Wi-Fi hotspots in increasing numbers at public venues, providing local coverage to traveling users and empowering them with the ability to access email, Web, and other Internet ...


**Keywords:** deployment, performance

6 [Composable ad hoc location-based services for heterogeneous mobile clients](#)

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5


**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (403.18 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 46, Downloads (Overall): 1346, Citation Count: 10

7 [Enhancing the security of corporate Wi-Fi networks using DAIR](#)

 Paramvir Bahl, Banveer Chandra, Jitendra Padhye, Lenin Ravindranath, Manpreet Singh, Alex Wolman, Brian Zill

June 2006 **MobiSys '06: Proceedings of the 4th international conference on Mobile systems, applications and services**

**Publisher:** ACM 

Full text available:  Pdf (302.26 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 260, Downloads (Overall): 1624, Citation Count: 10

We present a framework for monitoring enterprise wireless networks using desktop infrastructure. The framework is called DAIR, which is short for *Dense Array of Inexpensive Radios*. We demonstrate that the DAIR framework is useful for detecting ...


**Keywords:** 802.11, denial-of-service, rogue AP, security, wireless networks

8 [Wireless hotspots: current challenges and future directions](#)

 Anand Balachandran, Geoffrey M. Voelker, Paramvir Bahl

September 2003 **WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

**Publisher:** ACM 

Full text available:  Pdf (117.89 KB)

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**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 106, Downloads (Overall): 3733, Citation Count: 6


In recent years, wireless Internet service providers (WISPs) have established Wi-Fi hotspots in increasing numbers at public venues, providing local coverage to traveling users and empowering them with the ability to access email, Web, and other Internet ...

9 [On the impact of quality of protection in wireless local area networks with IP mobility](#)

Ayesh K. Agarwal, Wenye Wang

January 2007 **Mobile Networks and Applications**, Volume 12 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (570.49 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 142, Downloads (Overall): 1056, Citation Count: 3

Wireless local area networks (LANs) are vulnerable to malicious attacks due to their shared medium in unlicensed frequency spectrum, thus requiring security features for a variety of applications even at the cost of quality of service (QoS). However, ...


**Keywords:** mobile IP, performance analysis, quality of protection, quality of service, security protocols, wireless local area networks

10 [A proactive wireless self-protection system](#)

 [Samer Fayssal, Yousef Alnashif, Byoung Kim, Salim Hariri](#)

July 2008 **ICPS '08: Proceedings of the 5th international conference on Pervasive services**

**Publisher:** ACM

Full text available:  [PDF](#) (477.85 KB)


**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 47, Downloads (12 Months): 275, Downloads (Overall): 628, Citation Count: 0

Though mobile computing systems constitute the core of the next generation ubiquitous pervasive services, they still have many flaws in their security. This paper describes a novel framework for wireless anomaly based intrusion detection and response ...


**Keywords:** WNetFlow, WSPS, mobile, network, security, wireless

11 [TinySeRSync: secure and resilient time synchronization in wireless sensor networks](#)

 [Kun Sun, Peng Ning, Giff Wang](#)

October 2006 **CCS '06: Proceedings of the 13th ACM conference on Computer and communications security**

**Publisher:** ACM 

Full text available:  [PDF](#) (410.62 KB)


**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 91, Downloads (Overall): 807, Citation Count: 13

Accurate and synchronized time is crucial in many sensor network applications due to the need for consistent distributed sensing and coordination. In hostile environments where an adversary may attack the networks and/or the applications through external ...


**Keywords:** security, sensor networks, time synchronization

12 [Opportunistic use of client repeaters to improve performance of WLANs](#)

 [Paramvir Bahl, Ranveer Chandra, Patrick P. C. Lee, Vishal Misra, Jitendra Padhye, Dan Rubenstein, Yan Yu](#)

December 2008 **CoNEXT '08: Proceedings of the 2008 ACM CoNEXT Conference**

**Publisher:** ACM 


Full text available:  [PDF](#) (220.34 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 83, Downloads (Overall): 83, Citation Count: 3


Currently deployed IEEE 802.11 WLANs (Wi-Fi networks) share access point (AP) bandwidth on a per-packet basis. However, the various stations communicating with the AP often have different signal qualities, resulting in different transmission rates. This ...

13 [Mesh technology enabling ubiquitous wireless networks: invited paper](#)

 [Guido R. Hiertz, Sebastian Max, Erik Weib, Lars Berlemann, Dee Denteneer, Stefan Mangold](#)

August 2006 **WI CON '06: Proceedings of the 2nd annual international workshop on Wireless internet**

**Publisher:** ACM

Full text available:  [PDF](#) (470.65 KB)


**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 212, Downloads (Overall): 1492, Citation Count: 0

Today's wireless networking technology provides high data rates. With IEEE 802.11n products, data rates beyond 500Mb/s are soon feasible for *Wireless Local Area Network (WLAN)*. Due to a standstill in standardization the project ...

**Keywords:** IEEE 802.11s, IEEE 802.15.5, IEEE 802.16j, WLAN, WMAN, WPAN, wireless mesh networks

14 [Breaking the silos: access and service convergence over the mobile internet](#)

 Victor C.M. Leung, Terrence Wong, Payman TalebFard

October **MSWiM '08: Proceedings of the 11th international symposium on Modeling, analysis and simulation of wireless and mobile systems**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [PDF](#) (716.88 KB)


**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 124, Downloads (Overall): 220, Citation Count: 0

Conventional network services operate like silos in that a specific set of services are offered over a specific type of access network. As access networks evolve to provide IP-based packet access, it becomes attractive to break these "service silos" ...

**Keywords:** IP multimedia subsystem, convergence, heterogeneous access networks, service oriented architecture

15 [Fast authenticated key establishment protocols for self-organizing sensor networks](#)

 Qiang Huang, Johannes Cukier, Hisashi Kobayashi, Bode Liu, Jinyun Zhang

September 2003 **WSNA '03: Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [PDF](#) (303.05 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 104, Downloads (Overall): 2966, Citation Count: 14

In this paper, we consider efficient authenticated key establishment protocols between a sensor and a security manager in a self-organizing sensor network. We propose a hybrid authenticated key establishment scheme, which exploits the difference in capabilities ...

**Keywords:** elliptic curve cryptography, key establishment, security, sensor network

16 [A cooperative intrusion detection system for ad hoc networks](#)

 Yi-an Huang, Wenke Lee

October 2003 **SASN '03: Proceedings of the 1st ACM workshop on Security of ad hoc and sensor networks**

**Publisher:** ACM  [Request Permissions](#)


Full text available:  [PDF](#) (197.92 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 45, Downloads (12 Months): 280, Downloads (Overall): 1464, Citation Count: 34

Mobile ad hoc networking (MANET) has become an exciting and important technology in recent years because of the rapid proliferation of wireless devices. MANETs are highly vulnerable to attacks due to the open medium, dynamically changing network topology, ...

17 [COMBINE: leveraging the power of wireless peers through collaborative downloading](#)

 Ganesh Ananthanarayanan, Venkata N. Padmanabhan, Lenin Ravindranath, Chandramohan A. Thekkath

June 2007 **MobiSys '07: Proceedings of the 5th international conference on Mobile systems, applications and services**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [PDF](#) (358.45 KB)


**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 120, Downloads (Overall): 452, Citation Count: 7

Mobile devices are increasingly equipped with multiple network interfaces: Wireless Local Area Network (WLAN) interfaces for local connectivity and Wireless Wide Area Network (WWAN) interfaces for wide-area connectivity. The WWAN typically provides much ...

**Keywords:** accounting, battery, collaborative, multi-homed, power

18 [A case for adapting channel width in wireless networks](#)

 Ranveer Chandra, Ratul Mahajan, Thomas Moscibroda, Ranya Raghavendra, Paramvir Bahl

August SIGCOMM '08: Proceedings of the ACM SIGCOMM 2008 conference on Data communication 2008

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [PDF](#) (1.57 MB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 198, Downloads (Overall): 468, Citation Count: 10

We study a fundamental yet under-explored facet in wireless communication -- the width of the spectrum over which transmitters spread their signals, or the channel width. Through detailed measurements in controlled and live environments, and using only ...

**Keywords:** channel width

Also published in:

October 2008 SIGCOMM Computer Communication Review Volume 38 Issue 4

19 [Enhancing location privacy in wireless LAN through disposable interface identifiers: a quantitative analysis](#)

[Marco Gruteser](#), [Dirk Grunwald](#)

June Mobile Networks and Applications , Volume 10 Issue 3 2005

**Publisher:** Kluwer Academic Publishers

Full text available:  [PDF](#) (2.31 MB)


**Additional Information:** [full citation](#), [abstract](#), [references](#), [checked by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 75, Downloads (Overall): 503, Citation Count: 17

The recent proliferation of wireless local area networks (WLAN) has introduced new location privacy risks. An adversary controlling several access points could triangulate a client's position. In addition, interface identifiers uniquely identify each ...


**Keywords:** location privacy, wireless LAN

20 [Battery power-aware encryption](#)

 [R. Chandramouli](#), [S. Bapatla](#), [K. P. Subbalakshmi](#), [R. N. Uma](#)

May Transactions on Information and System Security (TISSEC) , Volume 9 Issue 2 2006

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [PDF](#) (454.71 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 145, Downloads (Overall): 875, Citation Count: 2



Minimizing power consumption is crucial in battery power-limited secure wireless mobile networks. In this paper, we (a) introduce a hardware/software set-up to measure the battery power consumption of encryption algorithms through real-life experimentation, ...

**Keywords:** Low-power encryption, optimization, profiling

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